

ABSTRACT

The present invention provides a modified substrate including a hydrophilic polymer wherein the soluble
5 hydrophilic polymer ratio is 15 weight percent or less and the number of adhered human blood platelets is $10/4.3 \times 10^3 \mu\text{m}^2$ or less. In addition, the present invention provides a method for producing a modified substrate including a step of irradiating the substrate with radiation while the
10 substrate is brought into contact with an aqueous solution containing a hydrophilic polymer and an antioxidant. The present invention provides a modified substrate having high hematologic compatibility wherein the hydrophilic polymer is immobilized on the surface of the substrate, and a method
15 for producing the same.